PATENT COOPERATION TREATY

From the INTERNA	TIONAL SEARC	CHING AUTH	ORITY				
To: GEOFFREY L. MELNICK G.E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT GAN, ISRAEL 52 521				PCT WRITTEN OPINION OF THE			
					INTERNATIONAL SEARCHING AUTHORITY		
					(PCT Rule 43bis.1)		
Amiliana					Date of mailing (day/month/year) 2 4 MAY 2007		
	's or agent's file	reference		FOR FURTHER ACTION			
29688	nal application N			See paragraph 2 below			
PCT/IL05		U.	International filing date		Priority date (day/month/year)		
		ication (IPC)	01 June 2005 (01.06.200 or both national classification	(5)	01 June 2004 (01.06.2004)		
I			o bom national classificati	ion and IPC			
	G06K 9/00(2006 Please See Contin	nuation Sheet					
Applicant			-				
V-TARGE	ET TECHNOLOG	GIES LTD.			· ·		
1 This s							
1. 11115		ndications rela	ting to the following items	S:			
	Box No. I	Basis of the	opinion				
	Box No. II	Priority					
	Box No. III	Non-establis	hment of opinion with reg	ard to novelty, inv	entive step and industrial applicability		
\bowtie	Box No. IV	Lack of unity of invention					
	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain docu					
	Box No. VII	/II Certain defects in the international application					
	Box No. VIII	Certain observations on the international application					
2. FURT	THER ACTIO	N					
Author	rity other than thi	is one to be th	AUUUUIIIV T TEEA 1 eve	ept that this does	be considered to be a written opinion of the s not apply where the applicant chooses an he International Bureau under Rule 66.1bis(b) lered.		
11 2/1	a withten reply to	ECMICI' MIRCIE I	considered to be a writte appropriate, with amendm piration of 22 months from	PRIC helore the ex	PEA, the applicant is invited to submit to the spiration of 3 months from the date of mailing whichever expires later		
For fur	ther options, see l	Form PCT/ISA	/220.	,	supplied tatel.		
3. For fur	ther details, see n	otes to Form P	CT/ISA/220.				
	mailing address of		Date of completion	on of this opinion	Authorized officer		
	ail Stop PCT, Attn: ommissioner for Pat		15 April 2007 (15	·	Anand Bhatnged		
P.0	P.O. Box 1450 Alexandria, Virginia 22313-1450						
	o. (571) 273-3201				Telephone No. 571-272-7416		
	A/237 (cover shee)				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL05/00575

Box No. I Basis of this opinion						
2 to 1 to 2 days of this opinion						
1. With regard to the language, this opinion has been established on the basis of:						
the international application in the language in which it was filed						
a translation of the international application into, which is the language of a translation furnished for the purpose; international search (Rules 12 3/2) and 23 1/5).						
international search (Rules 12.3(a) and 23.1(b)).	s of					
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the clainvention, this opinion has been established on the basis of:	imed					
a. type of material						
a sequence listing						
table(s) related to the sequence listing	•					
(c) the second of the second o						
b. format of material						
on paper						
in electronic form						
c. time of filing/furnishing						
contained in the international application as filed.						
filed together with the international application in electronic form.						
furnished subsequently to this Authority for the purposes of search.						
• •						
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been fit or furnished, the required statements that the information in the subsequent or additional copies is identical to that in application as filed or does not go beyond the application as filed, as appropriate, were furnished.	iled the					
4. Additional comments:						
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	- 1					
rm PCT/ISA/237(Box No. I) (April 2005)						

WRITTEN OPINION OF THE

International application No.

INTERNATIONAL SEARCHING AUTHORITY PCT/IL05/00575 Box No. IV Lack of unity of invention In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit: paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to 3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is complied with not complied with for the following reasons: See the lack of unity section of the International Search Report(Form PCT/ISA/210) 4. Consequently, this opinion has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos. 1-7, 31, 33-41, 45, 50, 57, 62, 111, and 116 (Species I, V. and VII).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00575

applicability; citations and expl . Statement			·
Novelty (N)	Claims Claims	1-7. 31. 45. 50. 57. 62, 111. 116 NONE	Y
Inventive step (IS)	Claims		Y
Industrial applicability (IA)	Claims	1-7. 31. 33-41. 45, 50. 57, 62, 111. and 116	
	Claims	NONE	N
Citations and explanations:			
ease See Continuation Sheet			
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00575

Suppl	lemental	Box
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Continuation of USPC:

382/128;128/922;250/580,582,583,584,586,590,591,339.06,339.06,341.1,341.2,345,370.09,370.08,393,392;600/11,436,459,462;378/1.2,

V. 2. Citations and Explanations:

Claims 1-7 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest: The feature of, regarding claim 1, 6, and 7 "determining a probability that a photon emitted at a voxel, centered at an x;y;z position, in a volume, relative to said radioactive-emission-measuring probe, will be detected by said detecting unit, at a given view, " that in combination with the other respective claim limitations.

Claims 31, 45, 50, 57, 62, 111, and 116 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest: The feature of, regarding claim 31 and similarly claims 45,50,57,62,111, and 116, "obtaining a second collection of views of the modeled suspected pathology within the modeled body-structure and the modeled anatomical constraints, providing a second scoring function, forming sets of views from the second collection of views and scoring them, with the second scoring function," that, in

Claims* 33-41 lack novelty under PCT Article 33(2) as being anticipated by Rogers et al. (U.S. patent 6,346,706 B1). Regarding claims 33 and 41:A radioactive-emission-measuring-probe system comprisising (fig. 2 elements 28,32, and 34, col. 1 lines 15-20. and col. 10 lines 23-44, wherein the gantry and camera detectors are read as the probe system since they are probing/imaging the anatomy of a person):

at least one detecting unit, located within the housing and adapted for at least one form of motion with respect to the housing (fig. 2 elements 28, 32 and 34, and col. 13 lines 1-25, wherein elements 32 and 34 are part of the housings along with the gantry, element 28, that contain the camera detectors that detect the photons that are emitted. The gantry rotates to take an image in different

at least one motion provider, in mechanical communication with the at least one detecting unit, for providing it with the at least one form of motion (col. 13 lines 1-25 wherein the gantry with th camera detectors rotates. This is controlled by the processor/controlling unit. The rotation of the gantry and camera detectors are read as motion.);

a controller, in signal communication with the at least one motion provider, for instructing it regarding said at least one form of motion of the at least one detecting unit, thus automatically providing said at least one detecting unit with said at least one form of motion motion (col. 13 lines 1-25 wherein the gantry with th camera detectors rotates. This is controlled by the processor/controlling unit. The rotation of the gantry and camera detectors are read as motion.).

Form PCT/ISA/237 (Supplemental Box) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00575

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Regarding claim 34: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of detecting units, each detecting unit moving independently (col. 17 line 62 to col. 18 line 12).

Regarding claim 35: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of assemblies of detecting units, each assembly moving $\theta < 0$ single body, and each assembly moving independently (col. 17 line 62 to col. 18 line 12, wherein each detector is composed of three detectors).

Regarding claim 36: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of lines of detecting units, each line moving as a single body, and each line moving independently (fig. 5 elements 152-154c and col. 17 line 12, wherein the detectors are in lines).

Regarding claim 37: The radioactive-emission-measuring-probe system wherein the at least one detecting unit includes a plurality of lines of assemblies, each line moving as a single body, and each line moving independently (fig. 5 elements 152-154c and col. 17 line 62 to col. 18 line 12, wherein the detectors are in lines).

Regarding claim 38: The radioactive-emission-measuring-probe system wherein the at least one form of motion with respect to the housing includes at least two forms of motion with respect to the housing (fig. 2 elements 28, 32, 34, and 60, wherein the gantry rotates, i.e. a first motion, and the table moves perpendicular to the gantry, i.e. a second motion).

Regarding claim 39: The radioactive-emission-measuring-probe system wherein the at least one motion provider includes at least two motion providers (see claim 38).